

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-9. (Cancelled)

Claim 10. (currently amended) A method of manufacturing edge connectors on a printed circuit board where the maximum resistance across the edge connector is about $70 \times 10^{-3} \Omega$ comprising applying a conductive ink that provides a sheet resistivity of about 0.1 to 0.5 $\Omega/\text{sq}/15\mu\text{m}$ over a copper conductor terminating at an edge of the circuit board , the conductive ink comprising a thermoset epoxy binder, graphite powder, carbon black, and silver flakes, wherein the silver flakes have an average size not greater than about $10\mu\text{m}$.

Claim 11. A method according to claim 10, wherein the sheet resistivity is about 0.2 to 0.3 $\Omega/\text{sq}/15\mu\text{m}$.

Claim 12. A method according to claim 10, wherein the sheet resistivity is about 0.25 $\Omega/\text{sq}/15\mu\text{m}$.

Claim 13. (currently amended) A method according to claim 12, wherein the [ink comprises an] thermoset epoxy binder comprises an epoxy resin containing phenolic monomers [, graphite powder, carbon black, and silver flakes].

Claim 14. A method according to claim 13, where the ink further comprises methanol and diethylene glycol [carbitol].

Claim 15. A method according to claim 14, wherein the ink comprises

- (a) from about 20 to 40% of an epoxy resin comprising phenolic monomers;
- (b) from about 3 to 10% of carbon black;
- (c) from about 8 to 20% of graphite powder;
- (d) from about 10 to 50% of silver flakes having an average grind size not greater than about 10µm.

Claim 16. A method according to claim 14, where the ink comprises

- (a) from about 20 to 40% of an epoxy resin comprising phenolic monomers;
- (b) from about 3 to 10% of carbon black;
- (c) from about 8 to 20% of graphite powder;

- (d) from about 10 to 50% of the silver flakes having an average grind size not greater than about 10 μ m;
- (e) up to about 30% thinner and
- (f) up to about 8% methanol.

Claims 17-21. (Cancelled)

22. The method of claim 10 wherein the conductive ink provides a contact resistance of about $50 \times 10^{-3} \Omega$.

23. The method of claim 11 wherein the edge connector has a contact resistance of about $35 \times 10^{-3} \Omega$.

24. The method of claim 12 wherein the conductive ink provides a contact resistance of about $30 \times 10^{-3} \Omega$.

Claims 25-27. (Cancelled)